

Sankaranarayanan Seetharaman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

270
papers

8,802
citations

51
h-index

83
g-index

279
ext. papers

9,936
ext. citations

3.7
avg, IF

6.69
L-index

#	Paper	IF	Citations
270	Mechanical Properties and Tribological Behavior of Magnesium Metal Matrix Composites With Micron-Sized and Nano-Sized Reinforcements 2022 , 26-45		1
269	Mechanical Properties of Sustainable Metal Matrix Composites: A Review on the Role of Green Reinforcements and Processing Methods. <i>Technologies</i> , 2022 , 10, 32	2.4	3
268	Development from Alloys to Nanocomposite for an Enhanced Mechanical and Ignition Response in Magnesium. <i>Metals</i> , 2021 , 11, 1792	2.3	0
267	Mechanical Characterization of Graphene Nanoplatelets-Reinforced Mg-3Sn Alloy Synthesized by Powder Metallurgy. <i>Metals</i> , 2021 , 11, 62	2.3	1
266	Corrosion Behavior, Microstructure and Mechanical Properties of Novel Mg-Zn-Ca-Er Alloy for Bio-Medical Applications. <i>Metals</i> , 2021 , 11, 519	2.3	0
265	Development of Lightweight Magnesium/Glass Micro Balloon Syntactic Foams Using Microwave Approach with Superior Thermal and Mechanical Properties. <i>Metals</i> , 2021 , 11, 827	2.3	5
264	Hot deformation behavior and processing maps of hybrid SiC and CNTs reinforced AZ61 alloy composite. <i>Journal of Alloys and Compounds</i> , 2021 , 868, 159098	5.7	7
263	Biocompatibility of Metal Matrix Composites Used for Biomedical Applications 2021 , 474-501		2
262	Tensile Response of Al-Based Nanocomposites 2021 , 313-324		
261	Fracture of magnesium matrix nanocomposites - A review. <i>International Journal of Lightweight Materials and Manufacture</i> , 2021 , 4, 67-98	2.2	5
260	Rapid densification of additive manufactured magnesium alloys via microwave sintering. <i>Additive Manufacturing</i> , 2021 , 37, 101655	6.1	4
259	Micromechanics and indentation creep of magnesium carbon nanotube nanocomposites: 298K-73K. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 801, 140418	5.3	8
258	Revealing modification mechanism of Mg ₂ Si in Sb modified Mg ₂ Si/ AZ91 composites and its effect on mechanical properties. <i>Journal of Alloys and Compounds</i> , 2021 , 850, 156877	5.7	5
257	Influence of micro Ti particles on resistance to cavitation erosion of Mg-xTi composites. <i>Mechanics of Materials</i> , 2021 , 154, 103705	3.3	1
256	Development of rare-earth oxide reinforced magnesium nanocomposites for orthopaedic applications: A mechanical/immersion/biocompatibility perspective. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 114, 104162	4.1	13
255	Using low-temperature sinterless powder method to develop exceptionally high amount of zinc containing Mg ₉₂ Zn ₈ Ca alloy and Mg ₉₂ Zn ₈ Ca/SiO ₂ nanocomposite. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 156957	5.7	2
254	Development and Properties of Amorphous Particles Reinforced Al Matrix Nanocomposites 2021 , 96-108		1

253	Metal Matrix Composites. <i>Engineering Materials</i> , 2021 , 129-158		0.4
252	Tensile Characteristics of Metal Matrix Composites 2021 , 298-312		
251	Eco-friendly Metal Matrix Composites 2021 , 140-159		1
250	Two Phase Processing of Metal Matrix Composites 2021 , 197-208		
249	An Insight Into Magnesium Based Metal Matrix Composites With Hybrid Reinforcement 2021 , 52-77		1
248	Fatigue Behavior of Magnesium Matrix Composites 2021 , 344-359		
247	In vitro degradation, haemolysis and cytotoxicity study of Mg-0.4Ce/ZnO nanocomposites. <i>IET Nanobiotechnology</i> , 2021 , 15, 157-163	2	0
246	Microstructure and Corrosion Behavior of Extruded Mg-Sn-Y Alloys. <i>Metals</i> , 2021 , 11, 1095	2.3	1
245	The Promise of Turning Induced Deformation Process for Synthesizing Magnesium Based Materials with Superior Mechanical Response. <i>Technologies</i> , 2021 , 9, 69	2.4	1
244	Utilizing Iron as Reinforcement to Enhance Ambient Mechanical Response and Impression Creep Response of Magnesium. <i>Metals</i> , 2021 , 11, 1448	2.3	2
243	Metal Based Composites With Metastable/Amorphous Reinforcements 2021 , 78-95		
242	Damping Characteristics of Metal Matrix Composites 2021 , 415-427		
241	Progress in research on hybrid metal matrix composites. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155274	5-7	43
240	EMI shielding of metals, alloys, and composites 2020 , 341-355		2
239	Effect of cooling rate on microstructures and mechanical property of Al 1230 alloy in a sand casting process. <i>Materials Today: Proceedings</i> , 2020 , 26, 1771-1775	1.4	2
238	Influence of turning speed on the microstructure and properties of magnesium ZK60 alloy pre-processed via turning-induced-deformation. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154840	5-7	4
237	Synthesis of Magnesium Based Nano-composites 2020 ,		1
236	Synthesis and analysis of MgB%Al alloy nanocomposites reinforced by RGO. <i>Materials and Manufacturing Processes</i> , 2020 , 35, 1650-1660	4.1	2

235	Magnesium Reinforced with Inconel 718 Particles Prepared Ex Situ-Microstructure and Properties. <i>Materials</i> , 2020 , 13,	3.5	2
234	Development of rare-earth oxide reinforced magnesium nanocomposites targeting biomedical applications. <i>Materials Today: Proceedings</i> , 2020 , 33, 5414-5418	1.4	2
233	Microstructure and Mechanical Behavior of Hot Extruded Aluminum/Tin-Bismuth Composites Produced by Powder Metallurgy. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2812	2.6	4
232	Improving Mechanical, Thermal and Damping Properties of NiTi (Nitinol) Reinforced Aluminum Nanocomposites. <i>Journal of Composites Science</i> , 2020 , 4, 19	3	9
231	Magnesium-Bismuth oxide nanocomposites: Room-temperature depth-sensing nanoindentation response. <i>International Journal of Lightweight Materials and Manufacture</i> , 2020 , 3, 217-225	2.2	1
230	A study on the effect of low-cost eggshell reinforcement on the immersion, damping and mechanical properties of magnesium-zinc alloy. <i>Composites Part B: Engineering</i> , 2020 , 182, 107650	10	30
229	Effect of Inconel625 particles on the microstructural, mechanical, and thermal properties of Al-Inconel625 composites. <i>Materials Today Communications</i> , 2020 , 25, 101564	2.5	4
228	ANALYSIS OF WEAR BEHAVIOR OF A NOVEL MAGNESIUM METAL-METAL COMPOSITE. <i>Surface Review and Letters</i> , 2020 , 27, 1950228	1.1	
227	A New Method to Lightweight Magnesium Using Syntactic Composite Core. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4773	2.6	5
226	Investigations on different hardfacing processes for High temperature applications of Ni-Cr-B-Si alloy hardfaced on austenitic stainless steel components. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 10062-10072	5.5	8
225	Effect of dilution on micro hardness of Ni-Cr-B-Si alloy hardfaced on austenitic stainless steel plate for sodium-cooled fast reactor applications. <i>Nuclear Engineering and Technology</i> , 2020 , 52, 589-596	2.6	10
224	Optimization of tribological behavior of magnesium metal-metal composite using pattern search and simulated annealing techniques. <i>Materials Today: Proceedings</i> , 2020 , 21, 492-496	1.4	5
223	Introducing a High Performance Mg-Based Multicomponent Alloy as an Alternative to Al-Alloys. <i>Frontiers in Materials</i> , 2019 , 6,	4	3
222	Achieving ultra-high strength and good ductility in AZ61 alloy composites containing hybrid micron SiC and carbon nanotubes reinforcements. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 768, 138447	5.3	20
221	Structural, mechanical and thermal characteristics of Al-Cu-Li particle reinforced Al-matrix composites synthesized by microwave sintering and hot extrusion. <i>Composites Part B: Engineering</i> , 2019 , 164, 485-492	10	39
220	Additive manufacturing of magnesium-zinc-beryllium (ZK) alloys via capillary-mediated binderless three-dimensional printing. <i>Materials and Design</i> , 2019 , 169, 107683	8.1	38
219	Significantly enhancing the strength + ductility combination of Mg-9Al alloy using multi-walled carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 974-982	5.7	19
218	Enhanced (X-band) microwave shielding properties of pure magnesium by addition of diamagnetic titanium micro-particulates. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 473-482	5.7	22

217	Magnesium nanocomposites: An overview on time-dependent plastic (creep) deformation. <i>Defence Technology</i> , 2019 , 15, 123-131	3	10
216	A Novel Turning-Induced-Deformation Based Technique to Process Magnesium Alloys. <i>Metals</i> , 2019 , 9, 841	2.3	7
215	Enhanced mechanical properties and near unity yield asymmetry in equiatomic high entropy alloy particles reinforced magnesium composites. <i>Journal of Alloys and Compounds</i> , 2019 , 810, 151909	5.7	5
214	Towards additive manufacturing of magnesium alloys through integration of binderless 3D printing and rapid microwave sintering. <i>Additive Manufacturing</i> , 2019 , 29, 100790	6.1	8
213	Ambient and non-ambient temperature depth-sensing indentation of Mg-Sm ₂ O ₃ nanocomposites. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 2947-2956	3.2	2
212	Role of Rare Earth Oxide Reinforcements in Enhancing the Mechanical, Damping and Ignition Resistance of Magnesium. <i>Minerals, Metals and Materials Series</i> , 2019 , 115-124	0.3	
211	Investigating and Understanding the Mechanical and Tribological Properties of a Magnesium Hybrid Metal/Ceramic Nanocomposite. <i>Minerals, Metals and Materials Series</i> , 2019 , 85-94	0.3	
210	Bioresorbable Nano-Hydroxyapatite Reinforced Magnesium Alloplastic Bone Substitute for Biomedical Applications: A Study. <i>Minerals, Metals and Materials Series</i> , 2019 , 71-82	0.3	1
209	Superior ductility in magnesium alloy-based nanocomposites: the crucial role of texture induced by nanoparticles. <i>Journal of Materials Science</i> , 2019 , 54, 8711-8718	4.3	16
208	On the Role of Processing on Microstructural Development and Mechanical Response of Magnesium-Based Nanocomposites. <i>Minerals, Metals and Materials Series</i> , 2019 , 37-49	0.3	
207	The Mechanical and Thermal Response of Shape Memory Alloy-Reinforced Aluminum Nanocomposites. <i>Minerals, Metals and Materials Series</i> , 2019 , 51-62	0.3	1
206	Processing, Properties and Potential Applications of Magnesium Alloy-Based Nanocomposites: A Review. <i>Minerals, Metals and Materials Series</i> , 2019 , 3-18	0.3	7
205	Fe ₃ O ₄ Nanoparticle-Reinforced Magnesium Nanocomposites Processed via Disintegrated Melt Deposition and Turning-Induced Deformation Techniques. <i>Metals</i> , 2019 , 9, 1225	2.3	9
204	Enhancing Properties of Aerospace Alloy Elektron 21 Using Boron Carbide Nanoparticles as Reinforcement. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5470	2.6	3
203	A paradigm shift towards compositionally zero-sum binderless 3D printing of magnesium alloys via capillary-mediated bridging. <i>Acta Materialia</i> , 2019 , 165, 294-306	8.4	20
202	Magnesium-iron micro-composite for enhanced shielding of electromagnetic pollution. <i>Composites Part B: Engineering</i> , 2019 , 163, 150-157	10	17
201	Depth sensing indentation of magnesium/boron nitride nanocomposites. <i>Journal of Composite Materials</i> , 2019 , 53, 1751-1763	2.7	3
200	Enhancing thermal and mechanical response of aluminum using nanolength scale TiC ceramic reinforcement. <i>Ceramics International</i> , 2018 , 44, 9247-9254	5.1	41

199	Effect of defects on electromagnetic interference shielding effectiveness of magnesium. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 9728-9739	2.1	12
198	An investigation into interaction between magnesium powder and Ar gas: Implications for selective laser melting of magnesium. <i>Powder Technology</i> , 2018 , 333, 252-261	5.2	31
197	An Engineered Magnesium Alloy Nanocomposite: Mechanisms Governing Microstructural Development and Mechanical Properties. <i>Minerals, Metals and Materials Series</i> , 2018 , 193-202	0.3	3
196	A strong and deformable in-situ magnesium nanocomposite igniting above 1000 °C. <i>Scientific Reports</i> , 2018 , 8, 7038	4.9	22
195	Investigations of Wear Response of Pure Mg and Mg-0.4 Ce-Y2O3/ZnO Nanocomposites Using a Single and Repeated Scratch Tests. <i>Tribology Transactions</i> , 2018 , 61, 951-959	1.8	6
194	Evolution of texture and asymmetry and its impact on the fatigue behaviour of an in-situ magnesium nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 727, 61-69	5.3	13
193	Enhancing the Hardness and Compressive Response of Magnesium Using Complex Composition Alloy Reinforcement. <i>Metals</i> , 2018 , 8, 276	2.3	15
192	Metallic Glasses as Potential Reinforcements in Al and Mg Matrices: A Review. <i>Technologies</i> , 2018 , 6, 40	2.4	6
191	The Promise of Sustainable Magnesium Composite Technology for Greener Future. <i>Materials Science Forum</i> , 2018 , 928, 56-61	0.4	
190	Investigation on dry sliding wear behavior of Mg/BN nanocomposites. <i>Journal of Magnesium and Alloys</i> , 2018 , 6, 263-276	8.8	43
189	Global Emergence and Significance of Magnesium/Technology. <i>Material Science Research India</i> , 2018 , 15, 107-113	1	2
188	Light Weight High Entropy Alloys: Processing Challenges and Properties. <i>Recent Patents on Materials Science</i> , 2018 , 10, 116-121	0.3	5
187	Utilizing Low-Cost Eggshell Particles to Enhance the Mechanical Response of Mg ₂ .5Zn Magnesium Alloy Matrix. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700919	3.5	24
186	Structure-property correlation in magnesium nanocomposites synthesized by disintegrated melt deposition technique. <i>Materials Today: Proceedings</i> , 2018 , 5, 16280-16285	1.4	2
185	Tribological characteristics of magnesium nanocomposites. <i>Materials Today: Proceedings</i> , 2018 , 5, 16575-16579	1.4	2
184	Enhancing Mechanical Response of Monolithic Magnesium Using Nano-NiTi (Nitinol) Particles. <i>Metals</i> , 2018 , 8, 1014	2.3	28
183	Using CaO Nanoparticles to Improve Mechanical and Ignition Response of Magnesium. <i>Current Nanomaterials</i> , 2018 , 3, 44-51	1.3	4
182	Enhancement of thermal, mechanical, ignition and damping response of magnesium using nano-ceria particles. <i>Ceramics International</i> , 2018 , 44, 15035-15043	5.1	37

181	Enhancing compressive, tensile, thermal and damping response of pure Al using BN nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 398-408	5.7	42
180	Lanthanum effect on improving CTE, damping, hardness and tensile response of Mg-3Al alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 3612-3620	5.7	33
179	Strengthening due to the in-situ evolution of η' Mg-Zn rich phase in a ZnO nanoparticles introduced Mg-Y alloy. <i>Scripta Materialia</i> , 2017 , 133, 29-32	5.6	16
178	Machinability Investigation in Micro-milling of Mg Based MMCs with Nano-Sized Particles. <i>Minerals, Metals and Materials Series</i> , 2017 , 61-69	0.3	0
177	Insight into cytotoxicity of Mg nanocomposites using MTT assay technique. <i>Materials Science and Engineering C</i> , 2017 , 78, 647-652	8.3	26
176	Effect of reinforcement concentration on the properties of hot extruded Al-Al ₂ O ₃ composites synthesized through microwave sintering process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 696, 60-69	5.3	94
175	Enhancing the tensile and ignition response of monolithic magnesium by reinforcing with silica nanoparticulates. <i>Journal of Materials Research</i> , 2017 , 32, 2169-2178	2.5	26
174	Magnesium Based Nanocomposites for Cleaner Transport 2017 , 809-830		3
173	Cumulative Effect of Strength Enhancer Lanthanum and Ductility Enhancer Cerium on Mechanical Response of Magnesium. <i>Metals</i> , 2017 , 7, 241	2.3	8
172	Improving significantly the failure strain and work hardening response of LPSO-strengthened Mg-Y-Zn-Al alloy via hot extrusion speed control. <i>Metals and Materials International</i> , 2017 , 23, 699-707	2.4	4
171	DLC coating of magnesium nanocomposites using RF sputtering. <i>Materials Today: Proceedings</i> , 2017 , 4, 6737-6742	1.4	3
170	Improved properties of Al ₃ Bi ₃ N ₄ nanocomposites fabricated through a microwave sintering and hot extrusion process. <i>RSC Advances</i> , 2017 , 7, 34401-34410	3.7	43
169	The dynamic compressive response of a high-strength magnesium alloy and its nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 702, 65-72	5.3	15
168	Aluminum and Magnesium Metal Matrix Nanocomposites. <i>Engineering Materials</i> , 2017 ,	0.4	43
167	Ex Situ Production Routes for Metal Matrix Nanocomposites. <i>Engineering Materials</i> , 2017 , 19-40	0.4	6
166	Casting Routes for the Production of Al and Mg Based Nanocomposites. <i>Engineering Materials</i> , 2017 , 41-93	0.4	
165	Mechanical Behavior of Al and Mg Based Nanocomposites. <i>Engineering Materials</i> , 2017 , 95-137	0.4	2
164	An insight into ignition factors and mechanisms of magnesium based materials: A review. <i>Materials and Design</i> , 2017 , 113, 84-98	8.1	66

163	Enhancing the Ignition, Hardness and Compressive Response of Magnesium by Reinforcing with Hollow Glass Microballoons. <i>Materials</i> , 2017 , 10,	3.5	40
162	Improved Compressive, Damping and Coefficient of Thermal Expansion Response of Mg ₉₂ Al _{7.5} La Alloy Using Y ₂ O ₃ Nano Reinforcement. <i>Metals</i> , 2017 , 7, 104	2.3	5
161	Significantly Enhancing the Ignition/Compression/Damping Response of Monolithic Magnesium by Addition of Sm ₂ O ₃ Nanoparticles. <i>Metals</i> , 2017 , 7, 357	2.3	41
160	Enhancing significantly the damping response of Mg using hollow glass microspheres while simultaneously reducing weight. <i>Advanced Materials Letters</i> , 2017 , 8, 1171-1177	2.4	7
159	Microstructure And Mechanical Properties New Magnesium- Zinc-Gadolinium Alloys 2016 , 159-163		1
158	Powder metallurgy hollow fly ash cenospheres particles reinforced magnesium composites. <i>Powder Metallurgy</i> , 2016 , 59, 188-196	1.9	19
157	Enhancing overall static/dynamic/damping/ignition response of magnesium through the addition of lower amounts (. <i>Journal of Alloys and Compounds</i> , 2016 , 689, 350-358	5.7	30
156	Enhancing the hardness/compression/damping response of magnesium by reinforcing with biocompatible silica nanoparticulates. <i>International Journal of Materials Research</i> , 2016 , 107, 1091-1099	0.5	53
155	Introducing Mg-4Zn-3Gd-1Ca/ZnO nanocomposite with compressive strengths matching/exceeding that of mild steel. <i>Scientific Reports</i> , 2016 , 6, 32395	4.9	21
154	Influence of Cerium on the Deformation and Corrosion of Magnesium. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2016 , 138,	1.8	13
153	A study of the dynamic compressive response of AZ31/Al ₂ O ₃ nanocomposites and the influence of nanoparticles. <i>International Journal of Impact Engineering</i> , 2016 , 89, 114-123	4	16
152	Microstructure-sensitive investigation on the plastic deformation and damage initiation of amorphous particles reinforced composites. <i>Composite Structures</i> , 2016 , 142, 130-139	5.3	15
151	Emerging Environment Friendly, Magnesium-Based Composite Technology for Present and Future Generations. <i>Jom</i> , 2016 , 68, 1890-1901	2.1	16
150	Synthesis and properties of light weight magnesium cenosphere composite. <i>Materials Science and Technology</i> , 2016 , 32, 923-929	1.5	30
149	Stretching the engineering strain of high strength LPSO quaternary Mg-Y-Zn-Al alloy via integration of nano-Al ₂ O ₃ . <i>Journal of Materials Science</i> , 2016 , 51, 4160-4168	4.3	8
148	Effects of TiO ₂ powder morphology on the mechanical response of pure magnesium: 1D nanofibers versus 0D nanoparticulates. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 45-58	5.7	11
147	Microstructure and damping characteristics of Mg and its composites containing metastable Al ₈₅ Ti ₁₅ particle. <i>Journal of Composite Materials</i> , 2016 , 50, 2565-2573	2.7	6
146	Microstructure and Mechanical Properties New Magnesium-Zinc-Gadolinium Alloys 2016 , 159-163		

145	Reinforcing Low-Volume Fraction Nano-TiN Particulates to Monolithical, Pure Mg for Enhanced Tensile and Compressive Response. <i>Materials</i> , 2016 , 9,	3.5	12
144	Microwave Rapid Sintering of Al-Metal Matrix Composites: A Review on the Effect of Reinforcements, Microstructure and Mechanical Properties. <i>Metals</i> , 2016 , 6, 143	2.3	26
143	An Insight into Evolution of Light Weight High Entropy Alloys: A Review. <i>Metals</i> , 2016 , 6, 199	2.3	73
142	Nano-ZnO Particles Effect in Improving the Mechanical Response of Mg-3Al-0.4Ce Alloy. <i>Metals</i> , 2016 , 6, 276	2.3	12
141	Enhancing hardness, CTE and compressive response of powder metallurgy magnesium reinforced with metastable Al90Y10 powder particles. <i>Powder Metallurgy</i> , 2016 , 59, 209-215	1.9	6
140	Magnesium nanocomposite: increasing copperisation effect on high temperature tensile properties. <i>Powder Metallurgy</i> , 2016 , 59, 66-72	1.9	4
139	Fatigue crack growth behavior of amorphous particulate reinforced composites. <i>Composite Structures</i> , 2016 , 153, 782-790	5.3	11
138	Metallic Amorphous Alloy Reinforcements in Light Metal Matrices. <i>SpringerBriefs in Materials</i> , 2015 ,	0.5	23
137	Effect of erbium modification on the microstructure, mechanical and corrosion characteristics of binary MgAl alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 759-770	5.7	32
136	Light Metal Matrix Composites with Amorphous Alloys/Bulk Metallic Glass Reinforcements (BMG). <i>SpringerBriefs in Materials</i> , 2015 , 85-106	0.5	2
135	Magnesium-based nanocomposites: Lightweight materials of the future. <i>Materials Characterization</i> , 2015 , 105, 30-46	3.9	233
134	Nano-AlN particle reinforced Mg composites: microstructural and mechanical properties. <i>Materials Science and Technology</i> , 2015 , 31, 1122-1131	1.5	44
133	Development of high-performance quaternary LPSO Mg ₉₀ Zn ₅ Al alloys by Disintegrated Melt Deposition technique. <i>Materials and Design</i> , 2015 , 83, 443-450	8.1	28
132	Effect of homogenization on enhancing the failure strain of high strength quaternary LPSO Mg ₉₀ Zn ₅ Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 644, 405-412	5.3	16
131	An Introduction to Lightweight, Energy Saving, Environment Friendly Magnesium Based Nanocomposites: Materials of Upcoming Generation. <i>Advanced Materials Research</i> , 2015 , 1125, 3-7	0.5	2
130	Mg/BN nanocomposites: Nano-BN addition for enhanced room temperature tensile and compressive response. <i>Journal of Composite Materials</i> , 2015 , 49, 3045-3055	2.7	20
129	Development of high performance MgTiO ₂ nanocomposites targeting for biomedical/structural applications. <i>Materials & Design</i> , 2015 , 65, 104-114		60
128	Review on mechanical properties of magnesium (nano)composites developed using energy efficient microwaves. <i>Powder Metallurgy</i> , 2015 , 58, 183-192	1.9	20

127	Synthesis and Characterization of Novel Magnesium Materials Containing Copper-Titanium Based (Cu50Ti50) Amorphous Alloy Particles 2015 , 387-390		
126	Microstructure and Mechanical Properties of a Magnesium-Aluminium-Erbium Alloy 2015 , 445-449		1
125	Effects of Ti and TiB ₂ Nanoparticulates on Room Temperature Mechanical Properties and in Vitro Degradation of Pure Mg 2015 , 413-418		
124	Synthesis and Characterization of Novel Magnesium Materials Containing Copper-Titanium Based (Cu50Ti50) Amorphous Alloy Particles 2015 , 387-390		
123	Using Microwave Energy to Synthesize Light Weight/Energy Saving Magnesium Based Materials: A Review. <i>Technologies</i> , 2015 , 3, 1-18	2.4	30
122	Mechanical Properties of Magnesium-Rare Earth Alloy Systems: A Review. <i>Metals</i> , 2015 , 5, 1-39	2.3	119
121	Effects of Primary Processing Techniques and Significance of Hall-Petch Strengthening on the Mechanical Response of Magnesium Matrix Composites Containing TiO ₂ Nanoparticulates. <i>Nanomaterials</i> , 2015 , 5, 1256-1283	5.4	18
120	Processing and Properties of Aluminum and Magnesium Based Composites Containing Amorphous Reinforcement: A Review. <i>Metals</i> , 2015 , 5, 743-762	2.3	19
119	Light Metal Matrix Composites. <i>SpringerBriefs in Materials</i> , 2015 , 7-58	0.5	6
118	Selection of Alloying Elements and Reinforcements Based on Toxicity and Mechanical Properties. <i>SpringerBriefs in Materials</i> , 2015 , 35-67	0.5	0
117	Development of high performance magnesium composites using Ni50Ti50 metallic glass reinforcement and microwave sintering approach. <i>Journal of Alloys and Compounds</i> , 2015 , 627, 192-199	5.7	39
116	Synthesis and characterization of high performance low volume fraction TiC reinforced Mg nanocomposites targeting biocompatible/structural applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 627, 306-315	5.3	46
115	Effects of Ti and TiB ₂ Nanoparticulates on Room Temperature Mechanical Properties and In Vitro Degradation of Pure Mg 2015 , 413-418		2
114	Synthesis of Magnesium-Based Biomaterials. <i>SpringerBriefs in Materials</i> , 2015 , 17-34	0.5	2
113	Using Energy Efficient Microwaves to Synthesize High Performance Energy Saving Magnesium (Nano) Composites 2015 , 187-193		
112	Dry sliding wear behaviour of zinc oxide reinforced magnesium matrix nano-composites. <i>Materials & Design</i> , 2014 , 58, 475-481		85
111	Hybridizing micro-Ti with nano-B ₄ C particulates to improve the microstructural and mechanical characteristics of Mg ₉₉ Ti composite. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 13-19	8.8	11
110	Effect of nanoscale boron carbide particle addition on the microstructural evolution and mechanical response of pure magnesium. <i>Materials & Design</i> , 2014 , 56, 428-436		42

109	Effect of impact angle and testing time on erosion of stainless steel at higher velocities. <i>Wear</i> , 2014 , 321, 87-93	3.5	65
108	Using heat treatment effects and EBSD analysis to tailor microstructure of hybrid Mg nanocomposite for enhanced overall mechanical response. <i>Materials Science and Technology</i> , 2014 , 30, 1309-1320	1.5	7
107	Nano-ZnO particle addition to monolithic magnesium for enhanced tensile and compressive response. <i>Journal of Alloys and Compounds</i> , 2014 , 615, 211-219	5.7	53
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- 1 An Investigation into the Effect of Length Scale (Nano to Micron) of Cerium Oxide Particles on the Mechanical and Flammability Response of Magnesium. *Journal of Materials Engineering and Performance*,1 1.6 1